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## PATENT ABSTRACTS OF JAPAN

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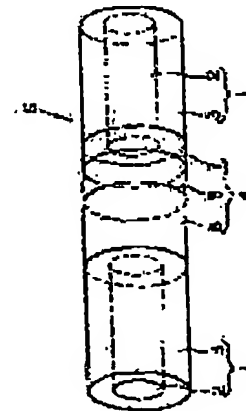
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 WADA FUMIO

## (54) MOISTURE SENSOR

## (57)Abstract:

PURPOSE: To enable simultaneous detection of a water droplet and water vapor by adsorbing moisture between the end faces of a pair of optical fibers facing each other and by shifting thereby a transmitted wavelength region.

CONSTITUTION: A dielectric multilayer film filter 4 whose refractive index varies with adsorption of moisture is inserted between the end faces of a pair of optical fibers 1 being opposite to each other. Thereby the moisture is adsorbed and a transmitted wavelength region is shifted. Then a light of a wavelength found in the transmitted wavelength region before adsorption of the moisture is not found in the transmitted wavelength region after adsorption of the moisture, transmittance lowers and a change in transmission takes place. By detecting this change in transmission, the moisture is detected.



## LEGAL STATUS

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